UNITED STATES DEPARTMENT OF AGRICULTURE.
BUREAU OF ENTOMOLOGY,
WASHINGTON, D. C.

FOREST ENTOMOLOGY.

Insect Conditions, Figueroa Unit, Santa Barbara N.F.

Ashland, Oregon. Nov 4, 1919.

"FIGUEROA UNIT".

Location: - Twp. 8N, Range 29-30W, San Bernardino Mer. In Santa Barbara National Forest. Northeast of Los Olivos, California.

Area: - Estimated at 2,500 acres bearing pine timber.

Type: - Yellow pine and Coulter pine. Other conifers are digger pine and big cone spruce, neither of which are involved in infestation siutable for experimental purposes.

Conditions: The type follows the summit of a mountain range extending from northwest to northeast, forming a long narrow belt about 8½ miles long and at no point exceeding one mile in width. The yellow pine-coulter pine type lies between the elevations of 3,000 and 4,500 feet. Digger pine is much more generally distributed throughout the region but forms no stands of value. There is no timber north of this belt for many miles. The Pacific ocean lies about 30 miles to the west and 20 miles to the south with no intervening bodies of timber. All possible sources of infestation from the north, wset and south are therefore eliminated. The nearest pine areas are located to the east and southeast. The nearest body of timber is a small tract on San Rafael Mt. about 8 miles from the eastern boundary of the unit.

The narrow belt of timber composing this unit is broken up into three distinct small areas which are locally known as pineries. The most westerly of these is the Zaca pinery which is estimated at about 1,000 acres. The type is almost entirely coulter pine and is much broken in distribution.

The Figueroa pinery is also estimated at 1,000 acres. It is located about the summit of the Figueroa Lookout Mt. and the type is composed about aeqally of yellow pine and coulter pine,

The East pinery which extends northwest from Ranger Peak is the smallest of the three divisions being estimated at about 320 acres. The type is almost entirely yellow pine of fine quality.

The status of the infestation as determined in the examination of Sept 8 to 10, 1919, stands as follows:

	1918 Loss.		1919 Loss.	
	No.trees	Volume	No.trees	Volume
Zaca Pinery	21	16,300	14	7,110
Figueroa Pinery	9	6,840	19	13,730
East Pinery	4	12,660	1	550

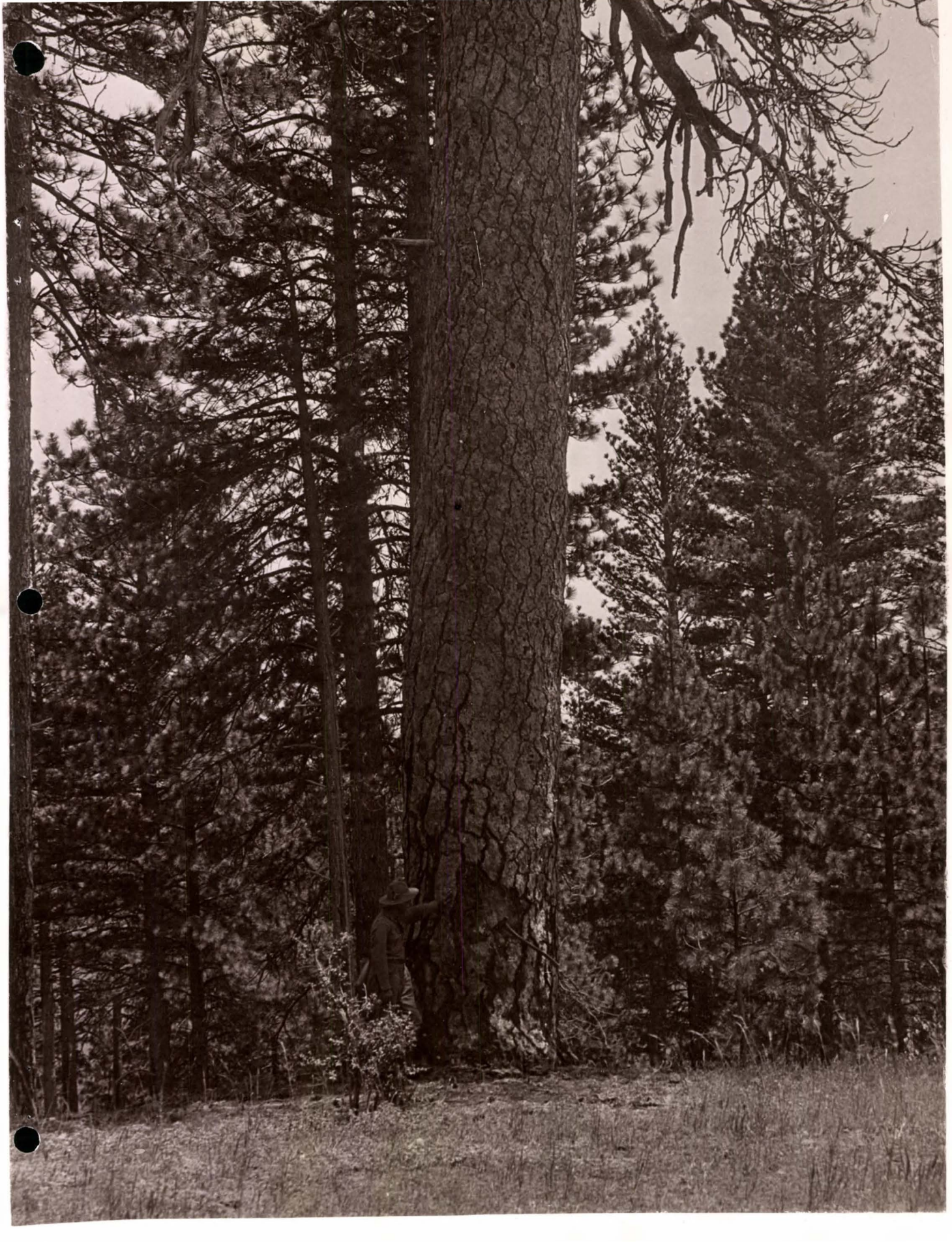
Total ..... 34 .... 35,800 .... 34 ... 21,390

This infestation was entirely Dendroctonus brevicomis, Lec. with the exception of a few trees in which only flatheads were found. The attack of 1919 was not complete so that afiar comparison of the annual loss is not available. An epidemic increase on the Figueroa Pinery howvere is readily apparent, as is also the decease on the East Pinery.

J. M. Miller

No.2. Figueroa Pinery, looking east from Zaca Peak. The timber shown on the ridge makks the western part of this division, the greater part of the timber lying east and south of this ridge.

No.4. A 50 inch yellow pine killed by Dendroctonus brevicomis on Figueroa mountain. This gives a fair idea of the size and quality which the yellow pine can attain on this unit.



No.5. Old burn on Figueroa mountain. This is reported to have occurred seven years ago, or in 1912. It is beleived that this fire aggravated quite an epidemic of D.brevicomis which had subsided prior to the examination in 1919. Many of the trees which were injured by the fire were subsequently attacked and killed by the beetle.

FOREST INSECT CONTROL
FIGUEROA UNIT
Santa Barbara Nat. Forest

Scale- 2 inches = 1 mile
× Insect-killed Coulter pine
• " " yellow pine.
Yellow pine coulter pine type.
September 1919
R. H. J. M. M.

Zaca Lake
Lookout Mt.
Zaca Peak
Mazana Canyon
Birabent's.
Figueroa R.S.
Old Mill
Spring
Figueroa Mt Lookout.
Tunnels.
Ranger Peak.
R 30 W
R 29 W
T 8 N
San Bernardino Mer.

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Mazana Canyon
Brown Canyon
Zaca Lake
Lookout Mt.
Zaca Peak
Birabent's
Figueroa Mt Lookout.
Figueroa R.S.
Old Mill
Spring
Tunnels
Ranger Peak

T8N San Bernardino Mer.

R30 W.
R29 W